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## AMENDMENTS TO THE CLAIMS

(Currently Amended) A vacuum extraction unit for a device used to engrave a
relief into the surface of a workpiece-(24), in particular into a printing element such as for
example a flexographic printing element, by means of radiation, in particular laser radiation, the
workpiece (24) being a cylinder or a plate which is arranged on a cylinder during the engraving,
with

-a hood—(11), which covers a region of interaction between the radiation and the workpiece surface and comprises a vacuum extraction channel—(12), the inlet opening (15)—of which lies opposite the workpiece surface in the operating position of the

hood and can be connected to a vacuum extraction line (38), and

-a C-shaped cover ring (13)-with two ends that follow the circumference of the workpiece and are located at a distance from each other, and has a substantially U-shaped cross section, the hood (11)-being arranged adjacent one of the two circumferential ends of the cover ring (13)-and extraction means (11, 14)-being provided at the other circumferential end.

- (Currently Amended) The vacuum extraction unit as claimed in claim 1, eharacterized in that wherein the C-shaped cover ring (13) is exchangeable.
- 3. (Currently Amended) The vacuum extraction unit as claimed in claim 1, eharacterized in that wherein the side walls (32) of the C-shaped cover ring (13) are provided with means for reducing its free inside diameter, so that said ring can be set to correspond to the diameter of the cylindrical workpiece (24) respectively to be processed.
- (Currently Amended) The vacuum extraction unit as claimed in claim 3, eharacterized in that wherein the means for reducing the free inside diameter of the C-shaped cover ring comprise a lamellar seal-(30).
- (Currently Amended) The vacuum extraction unit as claimed in claim 4, eharacterized in that wherein the individual lamellae (31) of the lamellar seal (30) are pivotably fastened to the side walls (18) of the cover ring (13).

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 (Currently Amended) The vacuum extraction unit as claimed in claim 3, eharacterized in that wherein the means for reducing the free inside diameter of the C-shaped cover ring comprise exchangeable side parts, in particular side plates.

- (Currently Amended) The vacuum extraction unit as claimed in claim 1, eharacterized in that wherein the C-shaped cover ring (13) is circumferentially subdivided into at least two ring segments (13a, 13b, 13e), which are pivotably held against each other.
- 8. (Currently Amended) The vacuum extraction unit as claimed in claim 7, eharacterized in that wherein the C-shaped cover ring (13)-is circumferentially subdivided into three ring segments (13a, 13b, 13e)-of different circumferential lengths, the circumferential length of an upper ring segment (13e)-corresponding approximately to half the circumferential length of the cover ring-(13), while the lower ring portion has two shorter ring segments (13a, 13b).
- 9. (Currently Amended) The vacuum extraction unit as claimed in claim 1, eharacterized in that-wherein a vacuum extraction nozzle (14) is arranged as extraction means in an intermediate space between the hood (11) and the other circumferential end of the C-shaped cover ring (13) that is located upstream of the hood-(11).
- 10. (Currently Amended) The vacuum extraction unit as claimed in claim 1, eharacterized in that wherein the hood (11) has
  - --a rear side to which a vacuum extraction line (38) can be connected,
- --two side walls-(32), which have end edges (33) 15-which lie opposite the workpiece (24)-in the operating position of the hood-(11), and
- --two directing walls (27, 34), which are located between the side walls (23), extend transversely in relation to the latter and which together with the two side walls (32)-delimit the vacuum extraction channel (12) in the hood (11), an edge (36)-of one (34)-of the two directing walls lying opposite the workpiece in the operating position of the hood, while the other directing wall (27)-has a convex. 25-evlindrical curvature lying opposite the workpiece surface in

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the operating position of the hood and, in the region of this curvature, at least one opening (40), through which the radiation for processing the workpiece surface is guided.

- (Currently Amended) The vacuum extraction unit as claimed in claim 1, eharacterized in that-wherein the hood (11)
  - --has a rear side, to which a vacuum extraction line (38) can be connected.
- --two side walls-(32), which have end edges (33)-with a contour which is adapted to the contour of the surface of a workpiece (24)-to be processed, so that corresponding gap seals are formed when the end edges (33)-lie opposite the workpiece (24)-in the operating position of the hood-(11), and
- --two directing walls-(27, 34), which are located between the side walls-(32), extend transversely in relation to the latter and which together with the two side walls (32)-delimit the vacuum extraction channel (12)-in the hood-(11), the hood-(11)-being provided with an opening (40), through which the radiation for processing the workpiece surface is guided.
- 12. (Currently Amended) The vacuum extraction unit as claimed in claim 11, eharacterized in that wherein an edge (36) of one (34) of the two directing walls lies opposite the workpiece in the operating position of the hood, while the other directing wall (27) has a convex, cylindrical curvature lying opposite the workpiece surface in the operating position of the hood and in that the at least one opening—(40), through which the radiation for processing the workpiece surface is guided, is arranged in the region of the curvature of the other directing wall (27).
- 13. (Currently Amended) The vacuum extraction unit as claimed in claim 10, eharacterized in that wherein the curvature of the curved directing wall (27) is curved in the form of an arc of a circle.
- 14. (Currently Amended) The vacuum extraction unit as claimed in claim 13, eharacterized in that wherein the curving of the curvature of the curved directing wall (27)-is greater than the curving of the surface of the workpiece (24).

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15. (Currently Amended) The vacuum extraction unit as claimed in claim 10, eharacterized in that—wherein the curvature of the curved directing wall (27)—is exponentially curved.

16. (Currently Amended) The vacuum extraction unit as claimed in claim 10, eharacterized in that wherein the opening or openings (40) through which the radiation for processing the workpiece (24) is guided is/are provided in the region of the curved directing wall

(27) that lies closest to the surface of the workpiece (24) in the operating position of the hood

<del>(11)</del>.

17. (Currently Amended) The vacuum extraction unit as claimed in claim 10,

eharacterized in that wherein the end edges (33) of the side walls (32) have a contour which is

adapted to the contour of the surface of a workpiece (24)-to be processed, so that corresponding

gap seals are formed.

18. (Currently Amended) The vacuum extraction unit as claimed in claim 10,

eharacterized in that wherein the contour of the end edges (33) of the side walls (32) is a polyline

that is adapted to the contour of the workpiece surface.

19. (Currently Amended) The vacuum extraction unit as claimed in claim 10,

eharacterized in that wherein the contour of the end edges (33) of the side walls (32) is an arc of

a circle that is adapted to the contour of the workpiece surface.

20. (Currently Amended) The vacuum extraction unit as claimed in claim 11,

eharacterized in that-wherein the distance between the end edges (33) of the side walls (32) and

the workpiece surface in the operating position of the hood (11)-is less than 50 mm, preferably

less than 30 mm, in particular less than 10 mm but greater than 0.5 mm. mm, and with 5

particular preference between 1 mm and 5 mm.

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21. (Currently Amended) The vacuum extraction unit as claimed in claim 11, eharacterized in that wherein the width of the gap seals formed between the end edges (33) of the side walls (32) and the workpiece surface lies in the range between 0.1 mm and 30 mm.

- 22. (Currently Amended) The vacuum extraction unit as claimed in claim 11, eharacterized in that-wherein the hood (11) is exchangeably fastened to a processing head-(23), so that when processing cylindrical workpieces (24)-with different diameters a hood from a number of hoods is respectively chosen and fastened to the processing head-(23), the side walls (32)-of which hood have end edges (33)-with a contour which is adapted as well as possible to the contour of the surface of the workpiece (24) respectively to be processed.
- 23. (Currently Amended) The vacuum extraction unit as claimed in claim 11, eharacterized in that wherein the side walls (32) of the hood are provided with means, in particular movable lamellae or exchangeable side parts, by which the contour of the edges of the side walls (32) that lie opposite a workpiece (24) can be changed in order to adapt them to the surface of the workpiece (24).
- 24. (Currently Amended) The vacuum extraction unit as claimed in <u>claim 10</u>, <u>wherein</u>, elaim 1, <u>characterized in that</u>, in the region of the curved directing wall (27) that lies closest to the surface of the workpiece (24) in the operating position of the hood-(11), each working jet or beam, in particular working laser beam, delivered by a processing head (23) is provided with an opening (40) of its own, through which the radiation for processing the workpiece (24) is focused on the latter.